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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/518,781	05/31/2005	Pascal DesBois	102695-102	3167		
27267 WIGGIN AND	7590 02/02/200 DANA LLP	9	Pascal DesBois 102695-102 3167  EXAMINER  O HERN, BRENT T			
ATTENTION:	PATENT DOCKETIN	O HERN, BRENT T				
		1032	ART UNIT	PAPER NUMBER		
	TURY TOWER, P.O. BOX 1832 EN, CT 06508-1832	1794				
			MAIL DATE	DELIVERY MODE		
			02/02/2009	PAPER		

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicati	on No.	Applicant(s)				
		10/518,78	31	DESBOIS ET AL.				
	Office Action Summary	Examine	•	Art Unit				
		Brent T. C		1794				
Period fo	The MAILING DATE of this communication or Reply	appears on the	e cover sheet with the d	correspondence ac	ldress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by streply received by the Office later than three months after the need patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THE FR 1.136(a). In no even. eriod will apply and wetatute, cause the app	HIS COMMUNICATION ent, however, may a reply be tir ill expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	•			
Status								
1) 又	Responsive to communication(s) filed on 1	15 December 2	008					
-	Responsive to communication(s) filed on <u>15 December 2008</u> .  This action is <b>FINAL</b> . 2b) ☐ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٠,١	closed in accordance with the practice und	<u>"</u> "	•					
Disposit	ion of Claims							
4)🖂	Claim(s) 1-12 is/are pending in the applica	ition.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	Claim(s) <u>1-12</u> is/are rejected.							
-	Claim(s) is/are objected to.							
-	Claim(s) are subject to restriction ar	nd/or election r	equirement.					
	ion Papers							
	The specification is objected to by the Exar	minor						
•	The drawing(s) filed on is/are: a)		☐ objected to by the	Examiner				
.0/			-					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the	-	,	-	, ,			
	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for fore	eian priority un	der 35 II S C & 110/a	\-(d) or (f)				
	☐ All b)☐ Some * c)☐ None of:	eigh phonty un	del 33 0.3.0. § 119(a	)-(u) or (r).				
a)	—	nents have hee	in received					
	· _ · · · · · · · · · · · · · · · · · ·							
	<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>							
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
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Attachmen			4) 🗖 Intend	(DTO 440)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948	3)	4) Interview Summary Paper No(s)/Mail Da					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO/SB/08)	.,	5) Notice of Informal F					
Paper No(s)/Mail Date 6) Other:								

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### **DETAILED ACTION**

### **Claims**

1. Claims 1-12 are pending.

### WITHDRAWN OBJECTIONS/REJECTIONS

All objections/rejections of record in the Office action mailed 5 August 2008, pp.
 2-5, paras. 2-5, have been withdrawn due to Applicant's amendments in the Paper filed
 December 2008.

### **NEW REJECTIONS**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claims 3 and 4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Dependent claim 3, line 3 claims 45 to 60% monounsaturated fatty acids, however, independent claim 1 establishes the lower limit of oleic acid (a monounsaturated fatty acid) as being 47%. Thus, dependent claim 3 is broader than independent claim #1.
- 5. Dependent claim 4, line 3 claims 10 to 30% polyunsaturated fatty acids, however, independent claim 1 establishes the lower limit of linoleic acid (a polyunsaturated fatty acid) as being 12%. Thus, dependent claim 4 is broader than independent claim #1.

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**6.** Claim 10 recites the limitation "the palm oil and rapeseed oil" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim. These oils are not set forth in independent claim #1.

Clarification and/or correction required.

## Claim Rejections - 35 USC § 102

7. Claims 1 and 3-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Kuchan et al. (US 6,136,858).

Kuchan ('858) teaches a vegetable fat composition comprising fatty acids and less than 0.4% of water based on the total weight of the composition, wherein at least 90% of the fatty acids have 16 to 18 carbon atoms, from 12 to 18% of the fatty acids are linoleic acid, from 47 to 51% of the fatty acids are oleic acid, 45-60% monounsaturated fatty acids, 10-30% polyunsaturated fatty acids with less than 1%/0.3% trans fatty acids, 3 to 7% linolenic acid with the ratio of omega-6 to omega-3 fatty acids being less than 7 (See col. 5, Chart I, palm olein without water being 98+% C16 and C18 with 48.1% monounsaturated oleic acid and 13.2% of polyunsaturated, omega-6 linoleic acid and columns 5-6, Chart II, with the "invention" without water being 90+% C16 and C18 having 34-48% oleic acid, 17% omega-6, linoleic acid and 3.2% omega-3, linolenic acid. Since the palm oil and "invention" oils disclosed in the above noted charts are not hydrogenated they are substantially free if not completely free of trans fats. The omega-6/omega-3 ratio is illustrated in Chart II. Trans fats are known to be very rare in nature and not present in refined, bleached and deodorized oils. Trans fats are known to be generated in a hydrogenation reaction. The oils with high concentrations of oleic

acid are advantageous over oils with higher levels of linoleic and linolenic acid since oleic acid is more stable as it only has one double bond as opposed to the other fatty acids. Additionally, oleic acid still provides a liquid oil since oleic acid is not a saturated fat like stearic and palmitic acid.).

The phrase "in that it contains, <u>optionally</u> fractionated palm oil and rapeseed oil" in claim 9, lines 2-3 is not limiting since the limitations are not required.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 2 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuchan et al. (US 6,136,858) in view of IDRIS et al., *Evaluation of Shortenings*Based on Various Palm Oil Products, 1373 Journal of the Science of Food and Agriculture 46 (1989) No. 4, Barking, Essex, Gr. Britain (See Applicant's IDS filed 5/23/2005).

Kuchan ('858) teaches the composition discussed above and further teaches a composition containing vitamins, salts and dyes (See col. 9, Tables II and III with the  $\beta$ -carotene presenting a strong color which is interpreted as dyeing the composition.), however, fails to expressly disclose the composition comprising 25 to 30% saturated fatty acids relative to the total fatty acids, palm and rapeseed oil being in respective the

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proportion of between 30:70 and 50:50, further comprising emulsifiers and flavourings and having a melting point between 35 and 45 C.

However, Idris teaches a vegetable fat/food product with a similar fatty acid profile (See p. 483 Table 1, formulations 2C and 3C.) as discussed above and taught by Kuchan ('858) and the palm oil and the rapeseed oil being in the respective proportions of between 30:70 and 50:50, with salt and flavourings added to the oil (See p. 483 Table 1, formulations 2C and 3C comprising blends of palm and rapeseed oil.

```
≥ Group 2
         50% Palm stearin (IV 44)
         150% Soya bean oil
         50% Palm stearin (IV 44)
 2B
        50% Cottonseed oil
 2C
        150% Palm stearin (IV 44)
        50% Low erucic acid rapeseed (LEAR) oil
 Group 3
 3A
        60% Palm stearin (IV 44)
        40% Soya bean oil
 3B
        60% Palm stearin (IV 44)
        40% Cottonseed oil
 3C
        60% Palm stearin (IV 44)
        140% Low erucic acid rapeseed (LEAR) oil
```

See Tables 2-3 where the 16:0 and 18:0 fatty acids are saturated due to zero double bonds, 16:1 and 18:1 are monounsaturated, with 18:1 being oleic acid, 18:2 being linoleic acid and 18:3 being linolenic acid.

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Slip me	lting po	int, fast	y acid	con	T. ipesitic	ABLE :	3 trigivceri	de como	reitian	al chart	anian
	Group 1		•••••	Group 3		de composition of shortening			conte		
Shortening code;	14	18	IC		24	233	3C	3.4	¥ 3B	3C	
Stip mehing point ("C);	44.5	45-0	44-1j		44.4	15.3	43-9	42.2	46.4	42:3	· .
Futly acid composition (%) 12:0 14:0 16:0 16:1	0-4 0-8 34-9 0-1	0-1 1-0 27-6 0-3	0-1 0-7 31-4 0-1	₽¢	0-1 0-6 30-2	0·1 1·0 38·6	0-1 0-7 27-7	04 05 26-6	6-1 1-0 41-0	0-1 0-5 23-1	
8:0 8:1 8:2 8:3 0:0 0:1 2:0 2:1	9·5 3·9 30·7 28·3 25·0 27·8 2·4 0·2 0·6 0·3	3-8 44-7 13-3 3-8 0-4 0-4	***	4-3 29-4 31-8 3-5	3-8 25-8 30-4 0-2	3-0 43-7 16-8 5-6 1-2 9-1	4-3 28-2 36-3 4-1	4-0 27-5 26-4 0-3	2·9 46·1 18·4 5·9 ———————————————————————————————————		
24:0			0-3				1-1			1-4	

It is known that much of the saturated fatty acids come from palm stearin. Palm stearin is the solid fraction generated by the fractionation of palm oil. The liquid fraction is separated and known to be used mostly as liquid cooking oil. The formulations have melting points of 43.9 °C and 42.3 °C as illustrated in Table 3. Salt and other materials can be formulated as disclosed in Table 2. All of the claimed percentages and proportions are disclosed in the above tables. Emulsifiers, such as lecithin, naturally found in vegetable oils is a common emulsifier due to its inherent ability to mix with both oils and water.) for the purpose of providing food with improved eating quality (See p. 482, lines 1-6.). Furthermore, blending oils/fats is common in the oil/fat industry for providing compositions with the desired melting points and performance properties.

Therefore, it would have been obvious to provide the formulations as taught by Idris and known in the art in Kuchan ('858) in order to provide food having good quality and performance.

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## **ANSWERS TO APPLICANT'S ARGUMENTS**

9. In response to Applicant's arguments (pp. 7-8 of Applicant's Paper filed 15

December 2008) that Idris does not anticipate the amended claims, it is noted that the Examiner concurs and Idris is no longer cited as a primary reference. Furthermore, none of the above arguments are directed towards limitations that Idris is cited as teaching above, thus, all arguments regarding Idris are moot.

**10.** Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brent T. O'Hern whose telephone number is (571)272-0496. The examiner can normally be reached on Monday-Thursday, 9:00-6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Tarazano can be reached on (571) 272-1515. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BTO/ Brent T. O'Hern Examiner Art Unit 1794 January 21, 2009

/Elizabeth M. Cole/ Primary Examiner, Art Unit 1794